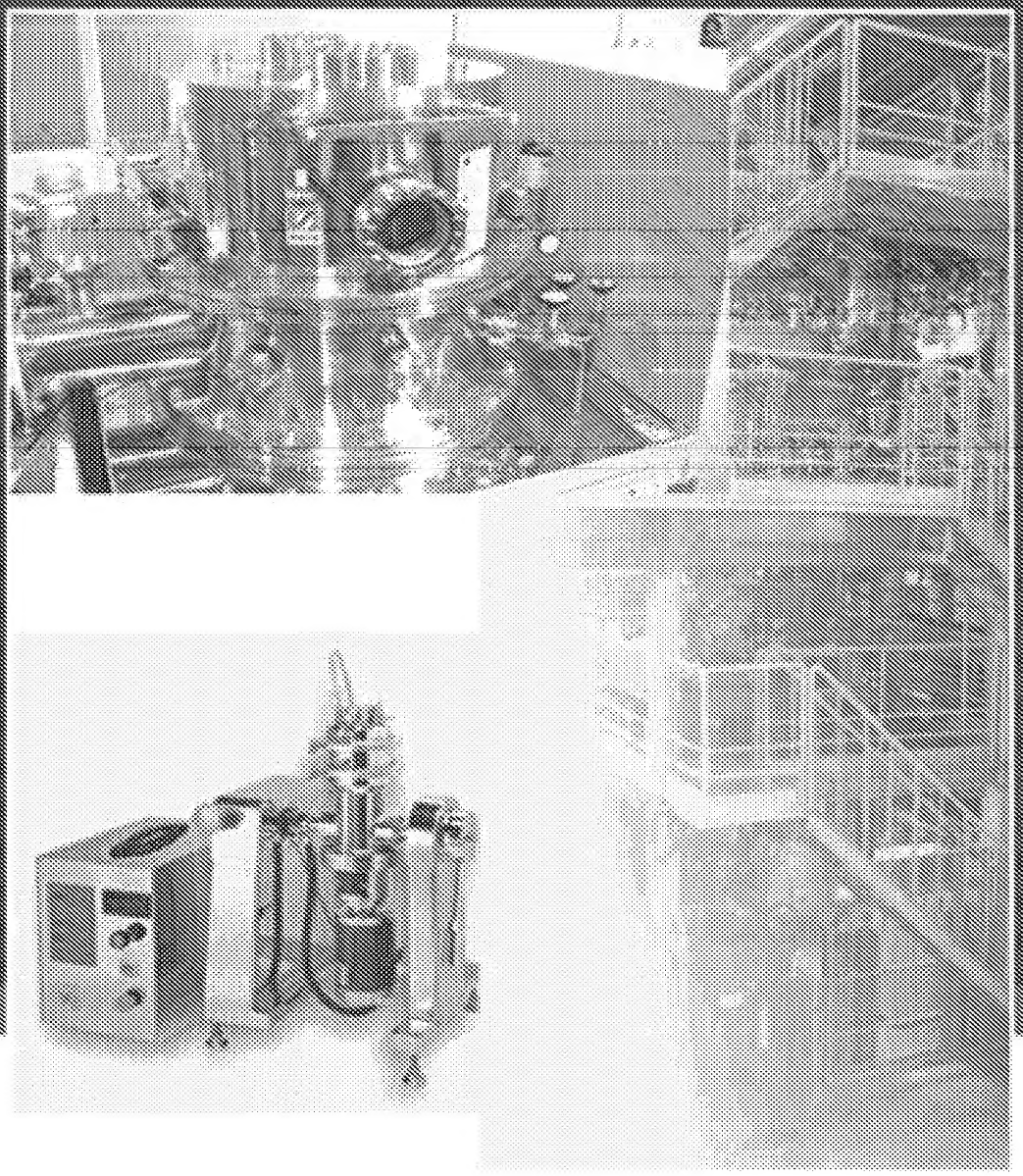
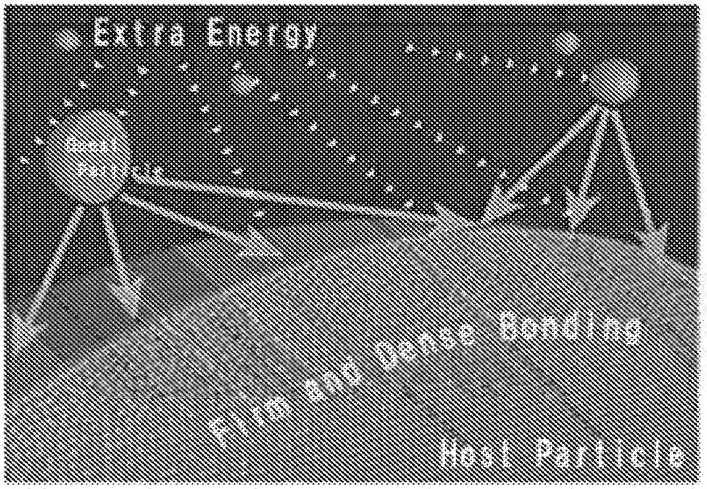
ADVANCED TECHNOLOGY FOR FINE PARTICLES



HOSOKAWA MICRON CORPORATION

Exhibit 1

HOSOKAWA's Advanced Technology for Fine Particle Composite — Mechano Chemical Bonding (MCB) Technology



HOSOKAWA's MBC Technology enables mechanochemical bonding of different types of particles on the molecular level to produce fine particle composites, utilizing mechanical energy to help create nano-bonding structure at the bonding interface. This process is applicable to any combination of any particles.

Using the MBC Technology, it is easy to design and produce highly functional composites.

Compared to similar wet processes, the MBC Technology process is more simplistic and covers a wider range of particles and combinations.

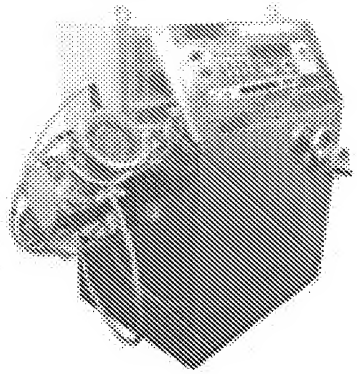
Using the MBC Technology, control is not limited to the production of particle composites via the surface bonding process but the formation of particle shape can be accomplished.

HOSOKAWA Machines for Fine Particle Composite Production

Machines to create functional particles for high value-added materials through the bonding process of very fine particles on the nano-level.

Nano-particle composite production system

NANOCULAR™ P-Laboratory model for laboratory scale

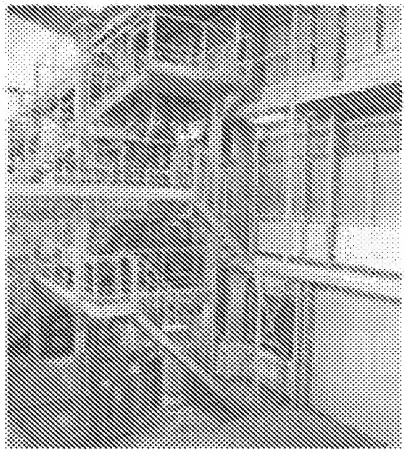


NANOCULAR P-Laboratory model is used for Laboratory for R&D development of advanced materials. In conjunction with mechanical energy the machine utilizes plasma irradiation to clean the particle surface, enabling the creation of NEW functionality materials.

[Technical Specification]
Model: NC-Lab-P
Motor: 2.2 kW
Effective Capacity: 0.1 liter

Nano-particle composite production system

NANOCULAR™ P-Continous model for continuous commercial production



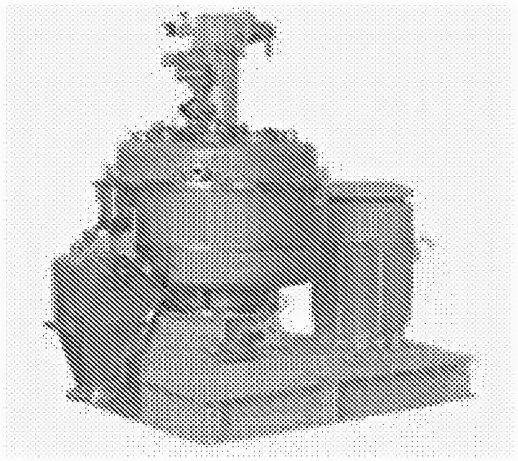
NANOCULAR P-Continuous system is used for continuous commercial production of advanced materials. In conjunction with mechanical energy the machine utilizes plasma irradiation to clean the particle surface, enabling the creation of NEW functionality materials.

[Technical Specification]
System Composition: NC-400-P, Vacuum pump,
Chiller unit and Pre-mixer
Installed Capacity: Approximately 100 kW

(NANOCULAR is named after "nano" from nano-particle and "lular" from molecular.)

Particle composite production system

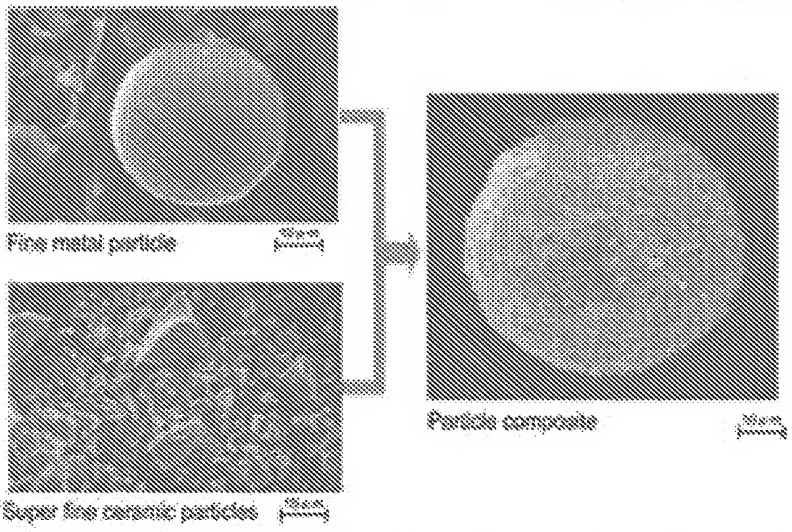
Mechanofusion®



Mechanofusion precisely mixes different types of particles by applying mechanically generated load to the material during processing. In addition, it produces particle composites and controls the formation of particle shape. The Mechanofusion series of machines, range from small laboratory units to large capacity systems. The reputation of the Mechanofusion system has been successful in numerous industrial fields. In addition, the series include systems for medical GMP applications with a capacity range of 0.1-liter to 1.0-liter.

[Technical Specification]
Models: AMS-Lab through to AMS-100F
Motor: 2.2 up to 150 kW
Capability: 1.2 up to 200 liters

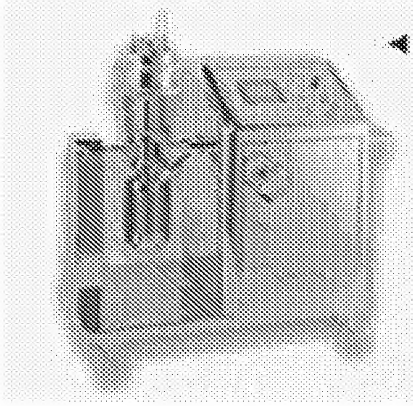
Application for electronic and electric component (metal / ceramic)



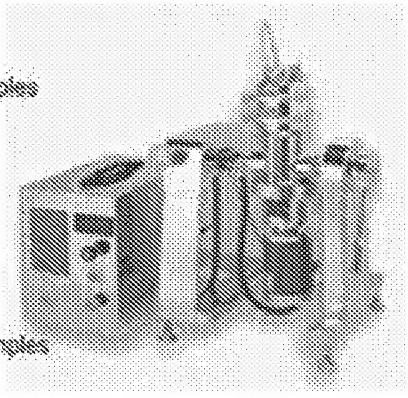
The image shows a particle composite formed by bonding super fine ceramic particles on the surface of a fine metal particle. When the composite is compressed and sintered, it is transforming into a new material that is electrically insulated but still magnetically appealing.

Particle composite production system

Mechanofusion® for Pharmaceutical GMP Application

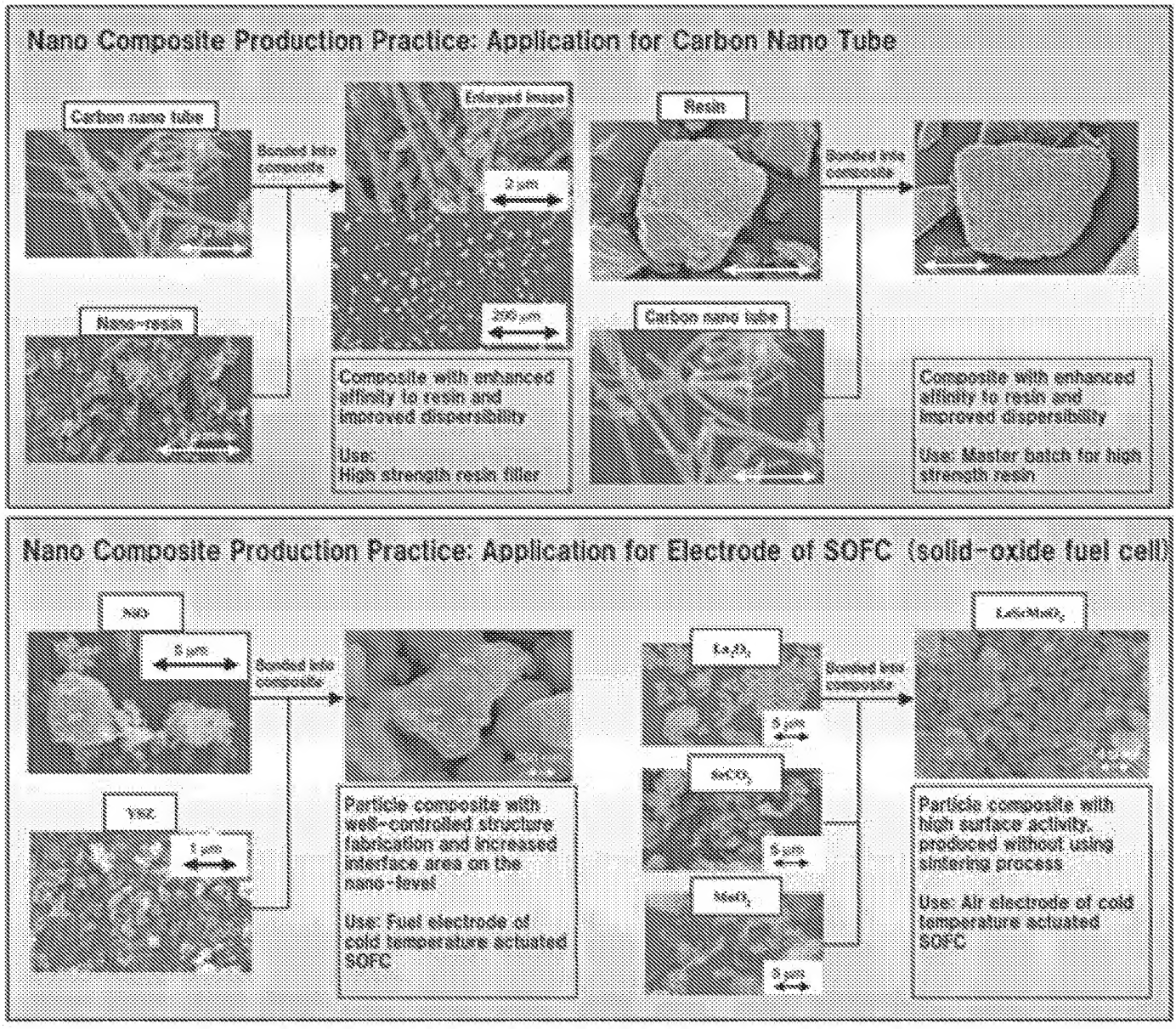


◀ AMS-Lab-GMP
For production of large quantity of samples
Motor: 2.2 kW
Effective Capacity: 1 liter /Batch



AMS-Mini-GMP ▶
For production of small amount of samples
Motor: 0.75 kW
Effective Capacity: 100 mL /Batch

Examples of Fine Particle Composite Production



Process Technologies for Tomorrow

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